

RAW SEQUENCE LISTING

EFS

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/663,497B
Source: IFWJ6
Date Processed by STIC: 12/22/06

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/663,497B

DATE: 12/22/2006

TIME: 12:12:13

Input Set : N:\efs\12_22_06\10663497b_efs\Seqlist_12_20_06.txt
 Output Set: N:\CRF4\12222006\J663497B.raw

4 <110> APPLICANT: Dale Umetsu
 5 Rosemarie DeKruyff
 6 Jennifer McIntire
 7 Gordon Freeman
 9 <120> TITLE OF INVENTION: T CELL REGULATORY GENES ASSOCIATED WITH
 10 IMMUNE DISEASE
 12 <130> FILE REFERENCE: STAN-235CIP
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/663,497B
 C--> 14 <141> CURRENT FILING DATE: 2003-09-15
 14 <150> PRIOR APPLICATION NUMBER: 60/302,344
 15 <151> PRIOR FILING DATE: 2001-06-29
 17 <150> PRIOR APPLICATION NUMBER: 10/188,012
 18 <151> PRIOR FILING DATE: 2002-07-01
 20 <160> NUMBER OF SEQ ID NOS: 58
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 305
 26 <212> TYPE: PRT
 27 <213> ORGANISM: M. musculus
 29 <220> FEATURE:
 30 <221> NAME/KEY: VARIANT
 31 <222> LOCATION: (1)...(305)
 32 <223> OTHER INFORMATION: TIM-1 BALB/c allele
 34 <400> SEQUENCE: 1
 35 Met Asn Gln Ile Gln Val Phe Ile Ser Gly Leu Ile Leu Leu Pro
 36 1 5 10 15
 37 Gly Thr Val Asp Ser Tyr Val Glu Val Lys Gly Val Val Gly His Pro
 38 20 25 30
 39 Val Thr Leu Pro Cys Thr Tyr Ser Thr Tyr Arg Gly Ile Thr Thr Thr
 40 35 40 45
 41 Cys Trp Gly Arg Gly Gln Cys Pro Ser Ser Ala Cys Gln Asn Thr Leu
 42 50 55 60
 43 Ile Trp Thr Asn Gly His Arg Val Thr Tyr Gln Lys Ser Ser Arg Tyr
 44 65 70 75 80
 45 Asn Leu Lys Gly His Ile Ser Glu Gly Asp Val Ser Leu Thr Ile Glu
 46 85 90 95
 47 Asn Ser Val Glu Ser Asp Ser Gly Leu Tyr Cys Cys Arg Val Glu Ile
 48 100 105 110
 49 Pro Gly Trp Phe Asn Asp Gln Lys Val Thr Phe Ser Leu Gln Val Lys
 50 115 120 125
 51 Pro Glu Ile Pro Thr Arg Pro Pro Thr Arg Pro Thr Thr Arg Pro
 52 130 135 140
 53 Thr Ala Thr Gly Arg Pro Thr Thr Ile Ser Thr Arg Ser Thr His Val

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54	145	150	155	160															
55	Pro	Thr	Ser	Ile	Arg	Val	Ser	Thr	Ser	Thr	Pro	Pro	Thr	Ser	Thr	His			
56																165	170	175	
57	Thr	Trp	Thr	His	Lys	Pro	Glu	Pro	Thr	Thr	Phe	Cys	Pro	His	Glu	Thr			
58																180	185	190	
59	Thr	Ala	Glu	Val	Thr	Gly	Ile	Pro	Ser	His	Thr	Pro	Thr	Asp	Trp	Asn			
60																195	200	205	
61	Gly	Thr	Val	Thr	Ser	Ser	Gly	Asp	Thr	Trp	Ser	Asn	His	Thr	Glu	Ala			
62																210	215	220	
63	Ile	Pro	Pro	Gly	Lys	Pro	Gln	Lys	Asn	Pro	Thr	Lys	Gly	Phe	Tyr	Val			
64																225	230	235	240
65	Gly	Ile	Cys	Ile	Ala	Ala	Leu	Val	Ser	Thr	Val								
66																245	250	255	
67	Ala	Ile	Thr	Arg	Tyr	Ile	Leu	Met	Lys	Arg	Lys	Ser	Ala	Ser	Leu	Ser			
68																260	265	270	
69	Val	Val	Ala	Phe	Arg	Val	Ser	Lys	Ile	Glu	Ala	Leu	Gln	Asn	Ala	Ala			
70																275	280	285	
71	Val	Val	His	Ser	Arg	Ala	Glu	Asp	Asn	Ile	Tyr	Ile	Val	Glu	Asp	Arg			
72																290	295	300	

73 Pro

74 305

77 <210> SEQ ID NO: 2

78 <211> LENGTH: 918

79 <212> TYPE: DNA

80 <213> ORGANISM: Mus musculus

82 <400> SEQUENCE: 2

83	atgaatcaga	ttcaagtctt	catttcaggc	ctcatactgc	ttctccagg	cactgtggat	60
84	tcttatgtgg	aagtaaaggg	ggtagtggtt	caccctgtca	cacttccatg	tacttactca	120
85	acatatcg	aatcacaac	gacatgttgg	ggccgagggc	aatgcccac	ttctgcttgt	180
86	caaaaatacac	ttatggac	caatggacat	cgtgtcacct	atcagaagag	cagtcggtag	240
87	aacttaaagg	ggcatatttc	agaaggagat	gtgtccttga	cgatagagaa	ctctgttgag	300
88	agtgacagt	gtctgtattt	tttgcagtg	gagattcctg	gatggttaa	tgatcagaaa	360
89	gtgaccttt	cattcaagt	taaaccagag	attcccacac	gtcctccaac	aagacccaca	420
90	actacaaggc	ccacagctac	aggaagaccc	acgacttattt	caacaagatc	cacacatgt	480
91	ccaaacatcaa	tcagagtctc	tacctccact	cctccaaacat	ctacacacac	atggactcac	540
92	aaaccagaac	ccactacatt	ttgtccccat	gagacaacag	ctgaggtgac	aggaatccca	600
93	tccataactc	ctacagactg	aatggcact	gtgacatcct	caggagatac	ctggagtaat	660
94	cacactgaag	caatccctcc	agggaaagccg	cagaaaaacc	ctactaagg	cttctatgtt	720
95	ggcatctgca	tcgcagccct	gctgctactg	ctccttgtga	gcaccgtgg	tatcaccagg	780
96	tacatactta	tgaaaaggaa	gtcagcatct	ctaagcgtgg	ttgccttccg	tgtctctaag	840
97	attgaagtt	tgcagaacgc	agegggttgt	cattcccgag	ctgaagacaa	cat tacatt	900
98	gttgaagata	gaccttga					918

100 <210> SEQ ID NO: 3

101 <211> LENGTH: 282

102 <212> TYPE: PRT

103 <213> ORGANISM: Mus musculus

105 <220> FEATURE:

106 <221> NAME/KEY: VARIANT

107 <222> LOCATION: (1)...(282)

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108 <223> OTHER INFORMATION: TIM-1, C.D2 ES-HBA and DBA/2J allele
 110 <400> SEQUENCE: 3
 111 Met Asn Gln Ile Gln Val Phe Ile Ser Gly Leu Ile Leu Leu Pro
 112 1 5 10 15
 113 Gly Ala Val Asp Ser Tyr Val Glu Val Lys Gly Val Val Gly His Pro
 114 20 25 30
 115 Val Thr Leu Pro Cys Thr Tyr Ser Thr Tyr Arg Gly Ile Thr Thr Thr
 116 35 40 45
 117 Cys Trp Gly Arg Gly Gln Cys Pro Ser Ser Ala Cys Gln Asn Thr Leu
 118 50 55 60
 119 Ile Trp Thr Asn Gly His Arg Val Thr Tyr Gln Lys Ser Ser Arg Tyr
 120 65 70 75 80
 121 Asn Leu Lys Gly His Ile Ser Glu Gly Asp Val Ser Leu Thr Ile Glu
 122 85 90 95
 123 Asn Ser Val Glu Ser Asp Ser Gly Leu Tyr Cys Cys Arg Val Glu Ile
 124 100 105 110
 125 Pro Gly Trp Phe Asn Asp Gln Lys Val Thr Phe Ser Leu Gln Val Lys
 126 115 120 125
 127 Pro Glu Ile Pro Thr Arg Pro Pro Arg Arg Pro Thr Thr Thr Arg Pro
 128 130 135 140
 129 Thr Ala Thr Gly Arg Pro Thr Thr Ile Ser Thr Arg Ser Thr His Val
 130 145 150 155 160
 131 Pro Thr Ser Thr Arg Val Ser Thr Ser Thr Pro Pro Thr Ser Thr His
 132 165 170 175
 133 Thr Trp Thr His Lys Pro Asp Trp Asn Gly Thr Val Thr Ser Ser Gly
 134 180 185 190
 135 Asp Thr Trp Ser Asn His Thr Glu Ala Ile Pro Pro Gly Lys Pro Gln
 136 195 200 205
 137 Lys Asn Pro Thr Lys Gly Phe Tyr Val Gly Ile Cys Ile Ala Ala Leu
 138 210 215 220
 139 Leu Leu Leu Leu Val Ser Thr Val Ala Ile Thr Arg Tyr Ile Leu
 140 225 230 235 240
 141 Met Lys Arg Lys Ser Ala Ser Leu Ser Val Val Ala Phe Arg Val Ser
 142 245 250 255
 143 Lys Ile Glu Ala Leu Gln Asn Ala Ala Val Val His Ser Arg Ala Glu
 144 260 265 270
 145 Asp Asn Ile Tyr Ile Val Glu Asp Arg Pro
 146 275 280
 149 <210> SEQ ID NO: 4
 150 <211> LENGTH: 849
 151 <212> TYPE: DNA
 152 <213> ORGANISM: Mus musculus
 154 <400> SEQUENCE: 4
 155 atgaatcaga ttcaagtctt catttcaggc ctcatactgc ttctccagg cgctgtggat 60
 156 tcttatgtgg aagtaaaggg ggtgggtgggt caccctgtca cacttccatg tacttactca 120
 157 acatatcggt gaatcacaac gacatgtgg ggccgagggc aatgcccatc ttctgcttgt 180
 158 caaaaatacac ttatggac caatggacat cgtgtcacct atcagaagag cagtcggtagc 240
 159 aacttaaagg ggcataatttc agaaggagat gtgtccttga cgatagagaa ctctgttgag 300
 160 agtacatgttgc gtctgttatttgc ttgtcgagtg gagattccctg gatggttaa tgatcagaaaa 360

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161 gtgacctttt cattgcaagt taaaaccagag attcccacac gtcctccaag aagacccaca 420
 162 actacaaggc ccacagctac aggaagaccc acgactattt caacaagatc cacacatgt 480
 163 ccaacatcaa ccagagtctc tacctccact cctccaaatc atcacacac atggactcac 540
 164 aaaccagact ggaatggcac tgtgacatecc tcaggagata octggagtaa tcacactgaa 600
 165 gcaatccctc cagggaaagcc gcagaaaaac cctactaagg gcttctatgt tggcatctgc 660
 166 atcgagcccc tgctgctact gtccttgtg agcaccgtgg ctatcaccag gtacataactt 720
 167 atgaaaagga agtcagcatc tctaagcgtg gttgccttcc gtgtctctaa gattgaagct 780
 168 ttgcagaacg cagcggttgt gcattcccgga gctgaagaca acatctacat tggtgaagat 840
 169 agaccttga 849
 171 <210> SEQ ID NO: 5
 172 <211> LENGTH: 305
 173 <212> TYPE: PRT
 174 <213> ORGANISM: Mus musculus
 176 <220> FEATURE:
 177 <221> NAME/KEY: VARIANT
 178 <222> LOCATION: (1)...(305)
 179 <223> OTHER INFORMATION: TIM-2 BALB/c allele
 181 <400> SEQUENCE: 5
 182 Met Asn Gln Ile Gln Val Phe Ile Ser Gly Leu Ile Leu Leu Leu Pro
 183 1 5 10 15
 184 Gly Ala Val Glu Ser His Thr Ala Val Gln Gly Leu Ala Gly His Pro
 185 20 25 30
 186 Val Thr Leu Pro Cys Ile Tyr Ser Thr His Leu Gly Gly Ile Val Pro
 187 35 40 45
 188 Met Cys Trp Gly Leu Gly Glu Cys Arg His Ser Tyr Cys Ile Arg Ser
 189 50 55 60
 190 Leu Ile Trp Thr Asn Gly Tyr Thr Val Thr His Gln Arg Asn Ser Arg
 191 65 70 75 80
 192 Tyr Gln Leu Lys Gly Asn Ile Ser Glu Gly Asn Val Ser Leu Thr Ile
 193 85 90 95
 194 Glu Asn Thr Val Val Gly Asp Gly Gly Pro Tyr Cys Cys Val Val Glu
 195 100 105 110
 196 Ile Pro Gly Ala Phe His Phe Val Asp Tyr Met Leu Glu Val Lys Pro
 197 115 120 125
 198 Glu Ile Ser Thr Ser Pro Pro Thr Arg Pro Thr Ala Thr Gly Arg Pro
 199 130 135 140
 200 Thr Thr Ile Ser Thr Arg Ser Thr His Val Pro Thr Ser Thr Arg Val
 201 145 150 155 160
 202 Ser Thr Ser Thr Ser Pro Thr Pro Ala His Thr Glu Thr Tyr Lys Pro
 203 165 170 175
 204 Glu Ala Thr Thr Phe Tyr Pro Asp Gln Thr Thr Ala Glu Val Thr Glu
 205 180 185 190
 206 Thr Leu Pro Ser Thr Pro Ala Asp Trp His Asn Thr Val Thr Ser Ser
 207 195 200 205
 208 Asp Asp Pro Trp Asp Asp Asn Thr Glu Val Ile Pro Pro Gln Lys Pro
 209 210 215 220
 210 Gln Lys Asn Leu Asn Lys Gly Phe Tyr Val Gly Ile Ser Ile Ala Ala
 211 225 230 235 240
 212 Leu Leu Ile Leu Met Leu Leu Ser Thr Met Val Ile Thr Arg Tyr Val

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213 245 250 255
 214 Val Met Lys Arg Lys Ser Glu Ser Leu Ser Phe Val Ala Phe Pro Ile
 215 260 265 270
 216 Ser Lys Ile Gly Ala Ser Pro Lys Lys Val Val Glu Arg Thr Arg Cys
 217 275 280 285
 218 Glu Asp Gln Val Tyr Ile Ile Glu Asp Thr Pro Tyr Pro Glu Glu Glu
 219 290 295 300

220 Ser

221 305

224 <210> SEQ ID NO: 6

225 <211> LENGTH: 958

226 <212> TYPE: DNA

227 <213> ORGANISM: Mus musculus

229 <400> SEQUENCE: 6

230 aagctacggc tctctcctaa ctggtcgtac catgaatcag attcaagtct tcatttcagg 60
 231 cctcatactg cttctccag gtgccgtgga gtctcataca gcagtgcagg ggctggcg 120
 232 tcaccctgtc acacttccat gtatttattc gacacacctt ggtgaatcg ttcctatgtg 180
 233 ttggggccta gggaatgcc gccattctta ttgtatacgg tcacttatct ggaccaatgg 240
 234 atatacggtc acacatcaga ggaacagtctg ataccaqcta aaggggataa tttcagaagg 300
 235 aaatgtgtcc ttgaccatag agaacactgt tgggggtat ggtggccctt attgctgtgt 360
 236 agtggagata cctggagcgt tccattttg ggactatatg ttggaagttt aaccagaaaat 420
 237 ttccacgagt ccaccaacaa ggcacacagc tacaggaaga cccacaacta ttcaacaag 480
 238 atccacacat gtacccaacat caaccagagt ctctacctt acttctccaa caccagcaca 540
 239 cacagagacc tacaaaccag aggccactac attttatcca gatcagacta cagctgaggt 600
 240 gacagaaacc ttaccctcta ctcctgcaga ctggcataac actgtgacat cctcagatga 660
 241 cccttggat gataacactg aagtaatccc tccacagaag ccacagaaaa acctgaataa 720
 242 gggcttctat gttggcatct ccattgcagc cctgctgata ttgatgcctt tgagcaccat 780
 243 ggttatcacc aggtacgtgg ttatgaaaag gaagtcagaa tctctgagct ttgttgcctt 840
 244 ccctatctt aagattggag cttcccccaa aaaagtggc gaacggacca gatgtgaaga 900
 245 ccaggtctac attattgaag acactcctta ccctgaagaa gagtcctagt gcctctac 958

247 <210> SEQ ID NO: 7

248 <211> LENGTH: 305

249 <212> TYPE: PRT

250 <213> ORGANISM: Mus musculus

252 <220> FEATURE:

253 <221> NAME/KEY: VARIANT

254 <222> LOCATION: (1)...(305)

255 <223> OTHER INFORMATION: TIM-2, C.D2 ES-HBA and DBA/2J allele

257 <400> SEQUENCE: 7

258 Met Asn Gln Ile Gln Val Phe Ile Ser Gly Leu Ile Leu Leu Pro
 259 1 5 10 15
 260 Gly Ala Val Glu Ser His Thr Ala Val Gln Gly Leu Ala Gly His Pro
 261 20 25 30
 262 Val Thr Leu Pro Cys Ile Tyr Ser Thr His Leu Gly Gly Ile Val Pro
 263 35 40 45
 264 Met Cys Trp Gly Leu Gly Glu Cys Arg His Ser Tyr Cys Ile Arg Ser
 265 50 55 60
 266 Leu Ile Trp Thr Asn Gly Tyr Thr Val Thr His Gln Arg Asn Ser Arg
 267 65 70 75 80

VERIFICATION SUMMARY

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date